# GEC JOURNAL OF SCIENCE & TECHNOLOGY

## INDEX TO VOLUME 43, 1976-7

THE GENERAL ELECTRIC COMPANY LIMITED

# *INDEX*

## *volume 43, 1976-7*

Inclusive page numbers for the year's issues are:


| | |
|---|---|
| No. 1 | 1 to 48 |
| No. 2 | 49 to 96 |
| No. 3 | 97 to 144 |



PAGE

**A**

Another 1200 MW turbine-generator set for the USA ..... 124
Antennas—Highly accurate surfaces for reflectors for large ..... 32
Artwork production—LINDA: a local interactive design aid for computer-aided general-purpose ..... 77
Automated microfiche terminal: fast retrieval from very large data bases ..... 51

**B**

Britain's largest generator for US nuclear-power station ..... 31

**C**

Characterization of thin films by X-ray diffraction ..... 111
Charge-coupled device as a TV image sensor—The ..... 125
Computer-aided design of printed-wiring boards with automatic component-placement and routing ..... 107
Computer-aided general-purpose artwork production—LINDA: a local interactive design aid for ..... 77

**D**

Data acquisition on nuclear plants—A fast analogue scanner for ..... 37
Data bases—Automated microfiche terminal: fast retrieval from very large ..... 51
Design aid for computer-aided general-purpose artwork production—LINDA: a local interactive ..... 77
Design of printed-wiring boards with automatic component-placement and routing—Computer-aided ..... 107
Developments in traction machines—Recent ..... 99
Diesel engine: 40% increase in output—Uprating a marine ..... 134
Digital private telephone exchange—A prototype ..... 85
Diodes—Microstrip switching using p-i-n ..... 136
Drives using static inverters—Variable-speed a.c. ..... 61

PAGE

**F**

Fast analogue scanner for data acquisition on nuclear plants—A ..... 37
Films by X-ray diffraction—Characterization of thin ..... 111

**G**

Generator for US nuclear-power station—Britain's largest ..... 31
Generators for nuclear-power stations in the USA—Large 1200 MW four-pole ..... 68

**H**

Highly accurate surfaces for reflectors for large antennas ..... 32

**I**

Image sensor—The charge-coupled device as a TV ..... 125
Integrated circuit techniques—Microwave ..... 21

**L**

Large 1200 MW four-pole generators for nuclear-power stations in the USA ..... 68
LINDA: a local interactive design aid for computer-aided general-purpose artwork production ..... 77

**M**

Marine diesel engine: 40% increase in output—Uprating a ..... 134
Microfiche terminal: fast retrieval from very large data bases—Automated ..... 51
Microstrip switching using p-i-n diodes ..... 136
Microwave integrated circuit techniques ..... 21
Minicomputer—Telephone-exchange control: the Mark 1P ..... 13

PAGE

## N

Nuclear plants—A fast analogue scanner for data acquisition on ..... 37
Nuclear-power station—Britain's largest generator for US ..... 31
Nuclear-power stations in the USA—Large 1200 MW four-pole generators for ..... 68

## P

Printed-wiring boards with automatic component-placement and routing—Computer-aided design of ..... 107
Prototype digital private telephone exchange—A ..... 85

## R

Recent developments in traction machines ..... 99
Reflectors for large antennas—Highly accurate surfaces for ..... 32
Retrieval from very large data bases—Automated microfiche terminal: fast ..... 51
Roll-force model for tinplate rolling—A ..... 3

## S

Scanner for data acquisition on nuclear plants—A fast analogue ..... 37
Static inverters—Variable-speed a.c. drives using ..... 61
Surfaces for reflectors for large antennas—Highly accurate ..... 32
Switching using p-i-n diodes—Microstrip ..... 136
Synopses ..... 2, 50, 98

PAGE

## T

Technical literature ..... 48, 96, 144
Telephone exchange—A prototype digital private ..... 85
Telephone-exchange control: the Mark 1P minicomputer ..... 13
Thin films by X-ray diffraction—Characterization of ..... 111
Tinplate rolling—A roll-force model for ..... 3
Traction machines—Recent developments in ..... 99
Turbine-generator set for the USA—Another 1200 MW ..... 124
TV image sensor—The charge-coupled device as a ..... 125

## U

Uprating a marine diesel engine: 40% increase in output ..... 134

## V

Variable-speed a.c. drives using static inverters ..... 61

## X

X-ray diffraction—Characterization of thin films by ..... 111

## AUTHORS


| | PAGE |
|---|---|
| Biggs, M. J. | 77 |
| Brown, H. T. | 125 |
| Creek, F. R. L. | 68 |
| Cullen, A. E. Z. | 85 |
| Duerden, F. | 51 |
| Grimble, M. J. | 3 |
| Howard, G. | 13 |
| Hyde, P. J. | 13 |
| Isherwood, B. J. | 111 |
| Lawrence, K. G. | 61 |
| Mitchell, B. | 37 |
| Oxley, T. H. | 21 |
| Patterson, G. L. | 107 |
| Phillips, B. H. | 107 |
| Rawle, D. L. | 99 |
| Shinn, D. H. | 32 |
| Tritton, J. A | 85 |
| Wallington, J. R | 136 |